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BUREAU OF THE CENSUS

Manufacturers' Shipments, Inventories, and Orders

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All figures in text below are in seasonally adjusted current dollars.

New orders for manufactured products in June rose \$0.4 billion to \$112.1 billion the Department of Commerce, Bureau of the Census reported today. Following a \$1.6 billion or 1.4 percent decline in April and a \$0.2 billion decrease in May, shipments of manufactured products rose \$1.5 billion or 1 percent to \$111.0 billion in June. Inventories held by manufacturers rose from \$172.6 billion at the end of May to \$173.5 billion at the end of June, for an increase of \$0.9 billion.

New orders for durable goods declined by \$0.4 billion or 1 percent. New orders for primary metals fell by \$1.0 billion or 11 percent to \$8.1 billion, entirely due to a \$1.1 billion decline in orders for steel mill products. The June decline followed a sharp May increase in new orders for steel mill products: \$1.2 billion or 30 percent to \$5.1 billion. Another significant decrease, \$1.2 billion or 36 percent, occurred in the defense capital goods industries. This series, composed of the defense portions of the machinery and transportation equipment industries rose in April by 62 percent or \$1.4 billion and fell in May by 8 percent or \$0.3 billion. New orders for motor vehicles and parts rose \$0.7 billion or 8 percent and orders for aircraft and parts rose \$0.4 billion or 12 percent. New orders for nondefense capital goods rose \$0.7 billion or 5 percent to \$15.7 billion.

Shipments of durable goods rose \$1.0 billion or 2 percent in June to \$57.7 billion. The largest portion of this increase was in the motor vehicles and parts industry where shipments rose \$0.7 billion or 8 percent. Shipments of steel mill products rose \$0.2 billion or 5 percent and shipments of electrical machinery rose \$0.2 billion or 3 percent. Declines were reported in the aircraft and parts industry (\$0.2 billion or 7 percent) and in the nonelectrical machinery industries (\$0.3 billion or 3 percent). Shipments of defense capital goods declined \$0.1 billion or 5 percent and shipments of nondefense capital goods declined \$0.3 billion or 2 percent.

Shipments of nondurable goods rose \$0.6 billion or 1 percent. A \$0.7 billion or 4 percent rise in shipments of foods contributed the largest amount to the increase. Chemical shipments rose by \$0.3 billion or 3 percent to \$9.7 billion while shipments of petroleum products fell by \$0.2 billion or 2 percent.

Inventories held by durable goods producers rose by \$1.0 billion or 1 percent and accounted for virtually all of the rise in manufacturing inventories. Several industries reported significant increases including motor vehicles and parts (\$0.2 billion or 3 percent), electrical machinery (\$0.2 billion or 2 percent) and nonelectrical machinery producers (\$0.2 billion or 1 percent). About half of the durable goods inventory rise, \$0.4 billion, was in the work-in-process portion of the inventories.

Nondurable goods producers held \$63.4 billion in inventories at the end of June, compared with \$63.5 billion at the end of May. Inventories held by food producers declined by 3 percent or \$0.4 billion to \$16.4 billion and offset the relatively small increases in the other nondurable goods industries. Over two-thirds of the decrease in foods was in inventories of materials and supplies.

Based on the preliminary figures in this report, shipments of manufactured products in the second quarter of 1977 were \$330.1 billion, \$9.1 billion or 2.8 percent above the \$320.9 billion in shipments for the first quarter of 1977. Durable shipments increased in the second quarter by \$4.3 billion or 2.6 percent and nondurable shipments increased by \$4.9 billion or 3.2 percent. New orders for durable goods received during the second quarter were 4.3 percent above orders in the first quarter. Inventories for all manufacturing industries at the end of the second quarter were 2.4 percent above first quarter inventories.

SCHEDULED RELEASE DATES

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for July is scheduled for release on August 19, 1977 and the full report is scheduled for release on August 30, 1977.

This report contains data on an unadjusted and seasonally adjusted basis. However, the data are not adjusted for price changes.

NOTICE

The appendix tables of this report include the revised data published in the Advance Report on Durable Goods as well as revised data for series not normally published as part of the Advance Report. These revisions were necessary to correct for errors in the calculation of the seasonal factors used to adjust the shipments and new orders data for several series. Revisions were also made to the unadjusted and seasonally adjusted series on office and store machines to reflect data changes reported to the Bureau of the Census. The data in the appendix tables begin in October 1976 and are comparable to the data from 1958 through September 1976 previously published.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call William Menth, (301) 763-2502.

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Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, BY INDUSTRY GROUP

(Millions of dollars)

Industry group	Shipments						Total inventories					
	Seasonally adjusted			Without seasonal adjustment ¹			Seasonally adjusted			Without seasonal adjustment ¹		
	June 1977 ^P	May 1977 ^r	Apr. 1977 ^r	June 1977 ^P	May 1977 ^r	Apr. 1977 ^r	June 1977 ^P	May 1977 ^r	Apr. 1977 ^r	June 1977 ^P	May 1977 ^r	Apr. 1977 ^r
All manufacturing industries:												
Total.....	110,985	109,458	109,640	116,962	110,762	111,242	173,503	172,629	170,747	172,725	173,087	171,886
Total, excluding transportation.....	97,100	96,133	96,299	101,783	96,576	97,436	153,489	152,894	151,153	153,322	153,578	152,285
Total for industries with unfilled orders...	56,760	56,431	56,243	60,523	57,072	56,946	115,708	114,571	113,355	115,738	119,244	114,366
Durable goods industries, total.	57,686	56,717	56,764	62,478	58,405	58,171	110,113	109,154	108,190	109,936	109,925	109,218
Durable goods with unfilled orders.....	45,103	44,723	44,473	48,562	45,531	45,264	101,144	100,109	99,030	100,901	104,543	99,925
Stone, clay, and glass products.	3,009	2,860	2,842	3,247	2,991	2,904	4,248	4,258	4,193	4,315	4,355	4,341
Primary metals, total.....	8,508	8,296	8,136	9,158	8,661	8,630	17,654	17,584	17,332	17,654	17,615	17,455
Blast furnaces, steel mills.	4,469	4,244	4,032	4,733	4,384	4,282	10,495	10,444	10,215	10,390	10,381	10,266
Nonferrous and other primary metals.....	3,129	3,169	3,251	3,423	3,334	3,436	6,157	6,159	6,088	6,237	6,209	6,209
Fabricated metal products total.....	7,446	7,253	7,370	7,907	7,397	7,496	13,601	13,396	13,332	13,755	13,613	13,530
Metal cans, barrels, and drums.....	658	659	629	733	669	625	1,278	1,264	1,305	1,370	1,363	1,383
Machinery, except electrical, total.....	9,780	10,060	10,017	10,757	10,096	10,222	24,809	24,566	24,476	24,847	24,852	24,816
Engines and turbines.....	808	829	932	908	855	911	2,162	2,110	2,073	2,130	2,108	2,065
Farm machinery and equipment.	879	880	868	975	933	1,005	2,351	2,356	2,321	2,370	2,410	2,409
Construction, mining, and material handling equipment.	1,800	1,877	1,771	1,971	1,902	1,886	5,350	5,346	5,432	5,350	5,415	5,530
Metalworking machinery.....	598	543	565	667	559	560	1,616	1,642	1,611	1,603	1,646	1,619
General industrial machinery	831	886	823	914	906	834	2,663	2,583	2,548	2,690	2,637	2,601
Electrical machinery, total...	6,747	6,555	6,602	7,161	6,493	6,601	15,337	15,088	14,741	15,431	15,333	14,881
Electrical transmission and distribution equipment and industrial apparatus.....	1,316	1,306	1,283	1,431	1,335	1,308	3,064	3,038	2,996	3,042	3,060	3,030
Household appliances.....	975	827	835	1,066	848	849	1,729	1,760	1,710	1,774	1,804	1,715
Radio and TV.....	532	495	442	542	404	379	851	805	805	885	863	805
Communication equipment.....	1,775	1,691	1,740	1,868	1,722	1,824	4,751	4,660	4,464	4,689	4,655	4,495
Transportation equipment, total	13,885	13,325	13,341	15,179	14,186	13,806	20,014	19,735	19,594	19,403	19,509	19,601
Motor vehicles and parts....	9,805	9,074	9,338	10,708	9,711	9,681	6,794	6,624	6,476	6,475	6,485	6,438
Aircraft, missiles, and parts.....	2,672	2,866	2,558	2,870	2,915	2,519	10,314	10,318	10,333	10,102	10,236	10,386
Shipbuilding and military tank vehicles.....	595	580	601	646	617	614	1,398	1,349	1,282	1,353	1,330	1,277
Instruments and related products, total.....	2,340	2,321	2,323	2,470	2,295	2,271	4,723	4,785	4,721	4,798	4,846	4,757
Scientific and engineering..	1,339	1,395	1,357	1,423	1,388	1,365	3,005	3,002	2,961	3,029	3,023	2,981
Photographic goods.....	793	749	777	840	742	730	1,283	1,314	1,280	1,317	1,343	1,298
All other durable goods industries.....	5,971	6,047	6,133	6,599	6,286	6,241	9,727	9,742	9,801	9,733	9,802	9,837
Nondurable goods industries, total.....	53,299	52,741	52,876	54,484	52,357	53,071	63,390	63,475	62,557	62,789	63,162	62,668
Nondurable goods with unfilled orders.....	11,657	11,708	11,770	11,951	11,541	11,682	14,564	14,462	14,325	14,837	14,701	14,441
Food and kindred products, total.....	15,921	15,261	15,778	15,907	15,028	15,429	16,372	16,819	16,530	15,642	16,224	16,274
Meat products.....	3,997	3,986	3,904	3,945	3,942	3,806	1,368	1,406	1,366	1,391	1,425	1,405
Fats and oils.....	1,666	1,553	1,574	1,615	1,517	1,570	2,017	2,185	2,087	1,864	2,128	2,163
Tobacco products.....	694	709	728	738	723	696	3,598	3,582	3,549	3,382	3,485	3,638
Textile mill products.....	3,414	3,558	3,593	3,672	3,571	3,543	5,506	5,473	5,426	5,623	5,616	5,534
Paper and allied products, total.....	4,615	4,593	4,702	4,850	4,570	4,683	5,551	5,534	5,439	5,588	5,584	5,468
Pulp, paper, etc.....	2,021	2,060	2,053	2,100	2,069	2,072	2,078	2,091	2,062	2,101	2,120	2,093
Paperboard containers.....	1,052	1,027	1,086	1,086	1,035	1,090	1,481	1,470	1,450	1,491	1,471	1,446
All other paper containers..	1,542	1,506	1,563	1,664	1,466	1,521	1,992	1,973	1,927	1,996	1,993	1,929
Chemicals and allied products, total.....	9,656	9,364	9,480	9,926	9,783	10,069	13,266	13,152	13,038	13,192	13,115	13,138
Industrial chemicals, except pigments.....	3,425	3,039	3,249	3,319	3,227	3,343	3,898	3,892	3,803	3,867	3,865	3,822
Drugs, soap, and toiletries.	2,244	2,273	2,281	2,282	2,104	2,228	4,012	3,937	3,915	4,085	4,019	3,942
Petroleum and coal products...	7,973	8,159	7,884	8,185	8,055	7,838	5,563	5,467	5,252	5,546	5,444	5,198
Rubber and plastics products, n.e.c.....	3,122	3,116	2,995	3,295	3,142	3,140	4,119	4,087	4,016	4,130	4,111	4,102
All other nondurable goods industries.....	7,904	7,981	7,716	7,911	7,485	7,673	9,415	9,361	9,307	9,686	9,583	9,316

See footnotes at end of table.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, BY INDUSTRY GROUP--Continued

(Millions of dollars)

Industry group	New orders						Unfilled orders					
	Seasonally adjusted			Without seasonal adjustment ¹			Seasonally adjusted			Without seasonal adjustment ¹		
	June 1977 ^P	May 1977 ^R	Apr. 1977 ^R	June 1977 ^P	May 1977 ^R	Apr. 1977 ^R	June 1977 ^P	May 1977 ^R	Apr. 1977 ^R	June 1977 ^P	May 1977 ^R	Apr. 1977 ^R
All manufacturing industries:												
Total ²	112,140	111,693	111,547	118,226	111,066	113,054	183,459	182,301	180,065	181,829	180,563	180,255
Total, excluding transportation ²	97,214	97,514	96,419	101,972	97,064	98,135	127,047	126,930	125,548	127,067	126,877	126,385
Total for industries with unfilled orders....	57,915	58,666	58,150	61,787	57,376	58,758	-	-	-	-	-	-
Durable goods industries, total ²	58,756	59,176	58,652	63,752	58,899	59,824	175,119	174,047	171,587	173,299	172,024	171,526
Durable goods with unfilled orders.....	46,173	47,182	46,361	49,836	46,025	46,917	-	-	-	-	-	-
Primary metals, total.....	8,102	9,079	7,904	8,568	8,706	8,669	17,268	17,673	16,890	17,278	17,868	17,822
Blast furnaces, steel mills.	3,951	5,089	3,906	4,217	4,498	4,433	11,178	11,696	10,851	11,122	11,638	11,523
Nonferrous and other primary metal products.....	3,211	3,062	3,102	3,343	3,241	3,270	4,889	4,807	4,914	4,982	5,062	5,155
Fabricated metal products.....	7,240	7,337	7,363	7,988	7,439	7,471	23,373	23,577	23,494	23,414	23,334	23,292
Machinery, except electrical, total ²	10,436	10,143	9,791	11,301	10,129	10,219	44,871	44,215	44,133	44,871	44,326	44,292
Engines and turbines.....	858	802	819	918	688	954	16,137	16,086	16,113	16,199	16,189	16,355
Construction, mining, and material handling equipment.	1,736	1,836	1,643	1,938	1,943	1,714	6,260	6,324	6,366	6,316	6,349	6,308
Metalworking machinery.....	676	662	602	735	669	623	3,165	3,088	2,968	3,150	3,082	2,971
General industrial machinery.	1,073	849	900	1,020	836	938	6,814	6,572	6,609	6,698	6,592	6,662
Electrical machinery, total...	6,937	7,163	6,941	7,418	6,931	6,852	24,572	24,383	23,772	24,228	23,969	23,531
Electrical transmission and distribution equipment and industrial apparatus.....	1,262	1,319	1,296	1,355	1,331	1,346	5,986	6,041	6,027	5,935	6,010	6,014
Household appliances.....	960	840	848	1,058	857	854	323	339	325	324	332	323
Radio and TV.....	560	514	475	598	437	409	425	397	377	437	381	348
Communication equipment.....	1,854	2,183	2,070	1,975	2,011	2,002	11,594	11,514	11,022	11,254	11,147	10,859
Transportation equipment, total.....	14,926	14,179	15,128	16,254	14,002	14,919	56,412	55,371	54,517	54,762	53,686	53,870
Aircraft, missiles, and parts.....	3,839	3,421	4,252	3,812	2,777	3,642	38,108	36,941	36,387	36,627	35,686	35,824
Shipbuilding and military tank vehicles.....	419	652	400	680	390	402	9,125	9,301	9,229	9,187	9,152	9,380
All other durable goods industries.....	11,115	11,275	11,525	12,223	11,692	11,694	8,623	8,828	8,781	8,746	8,841	8,719
Nondurable goods industries, total.....	53,384	52,517	52,895	54,474	52,167	53,230	8,340	8,254	8,478	8,530	8,539	8,729
Industries with unfilled orders.....	11,742	11,484	11,789	11,951	11,351	11,841	8,340	8,254	8,478	8,530	8,539	8,729
Industries without unfilled orders.....	41,642	41,033	41,106	42,523	40,816	41,389	-	-	-	-	-	-

- Represents zero. ^PPreliminary. ^RRevised.¹Adjusted for trading-day and calendar-month variations.²The following data reflect revised March 1977 unfilled orders:

Industry group	Unadjusted	Adjusted
All manufacturing industries:		
Total.....	178,453	178,167
Total, excluding transportation.....	125,685	125,438
Durable goods industries, total.....	169,884	169,704
Machinery, except electrical total....	44,295	44,361

Table 2.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, FOR MARKET CATEGORIES AND SUPPLEMENTARY SERIES
(Millions of dollars)

Industry group	Seasonally adjusted			Without seasonal adjustment ¹			Seasonally adjusted			Without seasonal adjustment		
	June 1977 ^P	May 1977 ^r	Apr. 1977 ^r	June 1977 ^P	May 1977 ^r	Apr. 1977 ^r	June 1977 ^P	May 1977 ^r	Apr. 1977	June 1977 ^P	May 1977 ^r	Apr. 1977
	Shipments						Total inventories					
All manufacturing industries, total..	110,983	109,458	109,640	116,962	110,762	111,242	173,503	172,629	170,747	172,725	173,087	171,886
Durable goods industries, total.....	57,686	56,717	56,764	62,478	58,405	58,171	110,113	109,154	108,190	109,936	109,925	109,218
Nondurable goods industries, total.....	53,299	52,741	52,876	54,484	52,357	53,071	63,390	63,475	62,557	62,789	63,162	62,668
Industry groups arranged by market categories:												
Home goods and apparel.....	8,569	8,520	8,294	8,941	8,056	8,187	14,821	14,747	14,608	15,177	15,159	14,678
Consumer staples.....	19,590	19,041	19,521	19,707	18,693	19,162	23,988	24,137	23,928	23,305	23,619	23,730
Equipment and defense products, except automotive.....	14,481	14,935	14,735	15,867	15,094	14,956	40,283	39,855	39,638	40,149	40,160	40,095
Automotive equipment.....	11,582	10,940	11,293	12,758	11,690	11,761	8,970	8,777	8,691	8,644	8,657	8,686
Construction materials, supplies, and intermediate products.....	9,696	9,431	9,483	10,707	9,984	9,789	14,352	14,536	14,523	14,447	14,637	14,728
Other materials and supplies and intermediate products.....	47,067	46,591	46,314	48,982	47,245	47,387	71,089	70,577	69,359	71,003	70,855	69,969
Supplementary series: ²												
Household durable goods industries.....	3,621	3,422	3,373	3,806	3,354	3,323	7,568	7,494	7,407	7,695	7,693	7,467
Capital goods industries.....	16,500	16,934	16,730	17,952	17,044	16,806	45,192	44,671	44,335	44,971	44,961	44,889
Nondefense.....	14,046	14,356	14,234	15,349	14,440	14,320	38,331	38,034	37,733	38,236	38,367	38,259
Defense.....	2,454	2,578	2,496	2,603	2,604	2,486	6,861	6,637	6,602	6,735	6,594	6,630
	New orders						Unfilled orders					
All manufacturing industries, total ³ .	112,140	111,693	111,547	118,226	111,066	113,054	183,459	182,301	180,065	181,829	180,563	180,255
Durable goods industries, total ³	58,756	59,176	58,652	63,752	58,899	59,824	175,119	174,047	171,587	173,299	172,024	171,526
Nondurable goods industries, total.....	53,384	52,517	52,895	54,474	52,167	53,230	8,340	8,254	8,478	8,530	8,539	8,729
Industry groups arranged by market categories:												
Home goods and apparel.....	8,488	8,588	8,377	8,941	8,202	8,313	3,447	3,507	3,445	3,467	3,462	3,338
Consumer staples.....	19,610	19,032	19,514	19,713	18,672	19,127						
Equipment and defense products, except automotive ³	15,854	15,948	16,169	17,485	15,068	15,988	105,506	104,032	102,888	103,974	102,237	102,161
Automotive equipment.....	11,681	11,074	11,627	12,876	11,790	11,947						
Construction materials, supplies, and intermediate products.....	9,725	9,564	9,545	10,816	10,112	9,845	18,263	18,235	18,102	18,281	18,172	18,043
Other materials and supplies and intermediate products.....	46,782	47,487	46,315	48,395	47,222	47,834	56,243	56,527	55,630	56,107	56,692	56,713
Supplementary series: ²												
Household durable goods industries.....	3,520	3,493	3,443	3,787	3,495	3,401	2,734	2,835	2,761	2,767	2,788	2,648
Capital goods industries ³	17,842	18,293	18,276	19,449	17,066	17,970	114,365	113,020	111,664	112,718	111,218	111,195
Nondefense ³	15,730	15,000	14,679	16,856	14,685	14,912	82,480	80,794	80,152	81,797	80,288	80,041
Defense.....	2,112	3,293	3,597	2,593	2,381	3,058	31,885	32,226	31,512	30,921	30,930	31,154

¹During 1968 manufacturers in ordnance, communications, aircraft and aircraft parts, and shipbuilding industries began to provide aggregate figures on shipments, orders, and total inventories of work performed for the Department of Defense. The results of these reports are included in these new defense series. ^PPreliminary. ^rRevised. ³Shipments and new orders adjusted for trading-day and calendar-month variations; unfilled orders and inventories as of end of month. ²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; ophthalmic goods, watches, clocks, and watchcases; and miscellaneous personal goods.
Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.
Nondefense industries - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), railroad equipment and the nondefense portions of shipbuilding and military tank vehicles, communication equipment, aircraft, aircraft parts and ordnance.
Defense products (new series) - Based on separate reports on defense work filed by large defense contractors in the following industries: ordnance, communication equipment, complete aircraft, aircraft parts, and shipbuilding and military tank vehicles. The data are comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

³The following data reflect revised March 1977 Unfilled orders:

Industry group	Unadjusted	Adjusted
All manufacturing industries, total	178,453	178,167
Durable goods industries, total.....	169,884	169,704
Industry group arranged by market categories:		
Equipment defense products except automotive.....	100,957	101,119
Supplementary series:		
Capital goods industries.....	110,032	110,119
Nondefense.....	79,450	79,708

Table 3.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average, 1972-1976	
	May-June 1977	Apr.-May 1977	Mar.-Apr. 1977	3 months			12 months	Average rise	Average decline
				Mar.-June 1977	Dec. 1976-Mar. 1977	Sept.-Dec. 1976	June 1976-June 1977		
Shipments:									
All manufacturing industries.....	+1.4	-0.2	-1.4	-0.1	+2.1	+2.1	+1.0	+1.5	-1.1
Durable goods industries, total.....	+1.7	-0.1	-3.5	-0.6	+2.2	+3.4	+1.2	+1.8	-1.5
Nondurable goods industries, total.....	+1.1	-0.3	+0.9	+0.6	+2.1	+0.6	+0.9	+1.6	-1.1
Total inventories:									
All manufacturing industries.....	+0.5	+1.1	+0.8	+0.8	+0.6	+0.3	+0.6	+1.0	-0.4
New orders:									
All manufacturing industries.....	+0.4	+0.1	-0.2	+0.1	+1.6	+2.7	+1.1	+1.9	-1.7
Durable goods industries, total.....	-0.7	+0.9	-0.9	-0.2	+1.3	+4.5	+1.2	+3.1	-2.1
Nondurable goods industries, total.....	+1.7	-0.7	+0.5	+0.5	+2.0	+0.8	+0.9	+1.8	-1.1
Unfilled orders:									
Durable goods industries, total.....	+0.6	+1.4	+1.1	+1.0	+0.5	+0.9	+0.6	+1.6	-0.9

Table 4.--VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP

(Millions of dollars)

Industry group	Seasonally adjusted			Without seasonal adjustment			Seasonally adjusted			Without seasonal adjustment		
	June 1977 ^P	May 1977 ^r	Apr. 1977	June 1977 ^P	May 1977 ^r	Apr. 1977	June 1977 ^P	May 1977 ^r	Apr. 1977	June 1977 ^P	May 1977 ^r	Apr. 1977
	Total						Materials and supplies					
All manufacturing industries, total..	173,503	172,629	170,747	172,725	173,087	171,886	63,660	63,683	62,568	63,005	62,976	62,472
Durable goods industries, total.....	110,113	109,154	108,190	109,936	109,925	109,218	36,865	36,615	35,758	36,482	36,221	35,571
Stone, clay, and glass products.....	4,248	4,258	4,193	4,315	4,355	4,341	1,514	1,493	1,485	1,510	1,498	1,498
Primary metals.....	17,654	17,584	17,332	17,654	17,615	17,455	8,290	8,267	8,300	8,312	8,157	8,140
Machinery (electrical and nonelectrical).	40,146	39,654	39,217	40,278	40,185	39,697	11,133	11,003	10,865	11,128	11,080	10,972
Transportation equipment.....	20,014	19,735	19,594	19,403	19,509	19,601	5,453	5,448	4,801	5,210	5,273	4,757
All other durable goods industries.....	28,051	27,923	27,854	28,286	28,261	28,124	10,475	10,404	10,307	10,322	10,213	10,204
Nondurable goods industries, total.....	63,390	63,475	62,557	62,789	63,162	62,668	26,795	27,068	26,810	26,523	26,755	26,901
Chemicals and allied products.....	13,266	13,152	13,038	13,192	13,115	13,138	5,372	5,349	5,323	5,343	5,303	5,307
Petroleum and coal products.....	5,563	5,467	5,252	5,546	5,444	5,198	1,919	1,921	1,895	1,992	1,972	1,929
Rubber and plastics products, n.e.c.....	4,119	4,087	4,016	4,130	4,111	4,102	1,494	1,483	1,472	1,504	1,493	1,501
All other nondurable goods industries....	40,442	40,769	40,251	39,921	40,492	40,230	18,010	18,315	18,120	17,684	17,987	18,164
	Work in process						Finished goods					
All manufacturing industries, total..	53,265	52,761	53,184	52,909	53,069	53,539	56,578	56,185	54,995	56,811	57,042	55,875
Durable goods industries, total.....	43,769	43,339	43,805	43,429	43,600	44,181	29,479	29,200	28,627	30,025	30,104	29,466
Stone, clay, and glass products.....	667	658	643	677	685	700	2,067	2,107	2,065	2,128	2,172	2,143
Primary metals.....	5,812	5,789	5,651	5,798	5,874	5,832	3,552	3,528	3,381	3,544	3,584	3,483
Machinery (electrical and nonelectrical).	17,181	17,079	17,003	17,111	17,184	17,068	11,832	11,572	11,349	12,039	11,921	11,657
Transportation equipment.....	11,889	11,758	12,364	11,608	11,687	12,388	2,672	2,529	2,429	2,585	2,549	2,456
All other durable goods industries.....	8,220	8,055	8,144	8,235	8,170	8,193	9,356	9,464	9,403	9,729	9,878	9,727
Nondurable goods industries, total.....	9,496	9,422	9,379	9,480	9,469	9,358	27,099	26,985	26,368	26,786	26,938	26,409
Chemicals and allied products.....	2,249	2,232	2,188	2,268	2,255	2,225	5,645	5,571	5,527	5,581	5,557	5,606
Petroleum and coal products.....	1,175	1,164	1,135	1,198	1,193	1,128	2,469	2,382	2,222	2,356	2,279	2,141
Rubber and plastics products, n.e.c.....	739	706	685	727	707	706	1,886	1,898	1,859	1,899	1,911	1,895
All other nondurable goods industries....	5,333	5,320	5,371	5,287	5,314	5,299	17,099	17,134	16,760	16,950	17,191	16,767

^PPreliminary.^rRevised.

Table 5.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories - shipments ratio				Unfilled orders - shipments ratio ¹ (months' backlog)			
	June 1977 ^P	May 1977 ^r	Apr. 1977 ^r	Mar. 1977 ^r	June 1977 ^P	May 1977 ^r	Apr. 1977 ^r	Mar. 1977 ^r
All manufacturing industries, total.....	1.56	1.58	1.56	1.52	3.23	3.23	3.20	3.11
Durable goods industries, total.....	1.91	1.92	1.91	1.83	3.88	3.89	3.86	3.71
Stone, clay, and glass products.....	1.41	1.49	1.48	1.39	0.90	0.96	0.95	0.88
Primary metals.....	2.07	2.12	2.13	2.02	2.03	2.13	2.08	2.00
Fabricated metals.....	1.83	1.85	1.81	1.72	3.44	3.58	3.49	3.36
Machinery, except electrical.....	2.54	2.44	2.44	2.42	5.04	4.82	4.80	4.81
Electrical machinery.....	2.27	2.30	2.23	2.21	3.64	3.72	3.56	3.53
Transportation equipment.....	1.44	1.48	1.47	1.35	8.74	8.50	8.71	7.97
Instruments and related products.....	2.02	2.06	2.03	2.02	1.63	1.67	1.68	1.64
Nondurable goods industries, total.....	1.19	1.20	1.18	1.18	0.72	0.70	0.72	0.73
Food and kindred products.....	1.03	1.10	1.05	1.04	(X)	(X)	(X)	(X)
Tobacco products.....	5.18	5.05	4.88	4.72	(X)	(X)	(X)	(X)
Textile mill products.....	1.61	1.54	1.51	1.53	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.20	1.20	1.16	1.17	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.37	1.40	1.38	1.34	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.70	0.67	0.67	0.67	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.32	1.31	1.34	1.31	(X)	(X)	(X)	(X)

NA Not available. P Preliminary. R Revised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; motor vehicles assembly operations; foods and related products; tobacco; apparel and related products; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

APPENDIX A

Table A-1.--VALUE OF MANUFACTURERS' SHIPMENTS AND NEW ORDERS

Industry group	June 1977 ^P	May 1977 ^P	April 1977 ^P	March 1977 ^P	February 1977 ^P	January 1977 ^P	December 1976 ^P	November 1976 ^P	October 1976 ^P
SHIPMENTS--SEASONALLY ADJUSTED									
All manufacturing industries:									
Total.....	110,985	109,458	109,640	111,241	106,133	103,569	104,475	99,919	97,043
Total, excluding transportation.....	97,100	96,133	96,299	96,874	93,309	90,927	90,299	88,303	86,941
Total for industries with unfilled orders.....	56,760	56,431	56,243	57,257	54,008	53,050	53,469	51,106	50,050
Durable goods industries ¹ , total.....	57,686	56,717	56,764	58,849	54,703	53,341	55,295	51,238	49,029
Durable goods with unfilled orders.....	45,103	44,723	44,473	45,721	42,780	42,054	42,560	40,706	39,720
Primary metals, total.....	8,508	8,296	8,136	8,566	7,590	7,334	7,298	7,283	7,355
Blast furnaces, steel mills.....	4,469	4,244	4,032	4,298	3,708	3,467	3,583	3,714	3,681
Nonferrous and other primary metals products.....	3,129	3,169	3,251	3,387	3,019	3,020	2,910	2,751	2,877
Machinery, except electrical, total.....	9,780	10,060	10,017	9,904	9,713	9,471	9,546	9,282	9,204
Electrical machinery, total.....	6,747	6,555	6,602	6,655	6,594	6,625	6,688	6,298	6,037
Communication equipment.....	1,775	1,691	1,740	1,838	1,703	1,742	1,808	1,674	1,585
Transportation equipment, total.....	13,885	13,325	13,341	14,367	12,824	12,642	14,176	11,616	10,102
Aircraft, missiles and parts.....	2,672	2,866	2,558	2,691	2,661	2,555	2,771	2,308	2,393
SHIPMENTS--WITHOUT SEASONAL ADJUSTMENT									
All manufacturing industries:									
Total.....	116,962	110,762	111,242	114,201	106,743	96,387	98,023	100,128	101,180
Total, excluding transportation.....	101,783	96,576	97,436	99,428	93,694	84,584	86,027	87,863	89,873
Total for industries with unfilled orders.....	60,523	57,072	56,946	58,702	54,195	48,994	51,122	51,299	52,148
Durable goods industries, total.....	62,478	58,405	58,171	60,550	54,715	48,858	50,798	51,345	51,666
Durable goods with unfilled orders.....	48,562	45,531	45,264	47,025	42,934	38,623	40,624	40,620	41,227
Primary metals, total.....	9,158	8,661	8,630	8,847	7,774	6,980	6,752	7,086	7,454
Blast furnaces, steel mills.....	4,733	4,384	4,282	4,539	3,831	3,457	3,357	3,547	3,641
Nonferrous and other primary metals products.....	3,423	3,334	3,436	3,390	3,089	2,745	2,694	2,743	2,961
Machinery, except electrical, total.....	10,757	10,096	10,222	10,772	9,953	8,785	9,477	9,966	9,127
Electrical machinery, total.....	7,161	6,493	6,601	6,813	6,634	6,012	6,565	6,407	6,383
Communication equipment.....	1,868	1,722	1,824	1,856					
Transportation equipment, total.....	15,179	14,186	13,806	14,773	13,049	11,803	11,996	12,265	11,307
Aircraft missiles and parts.....	2,870	2,915	2,519	2,792	2,700	2,224	2,771	2,308	2,393
NEW ORDERS--SEASONALLY ADJUSTED									
All manufacturing industries:									
Total.....	112,140	111,693	111,547	111,788	106,575	105,288	106,600	100,784	99,006
Total, excluding transportation.....	97,214	97,514	96,419	97,224	93,961	92,658	91,113	88,682	87,637
Total for industries with unfilled orders.....	57,915	58,666	58,150	57,804	54,447	54,769	55,594	51,971	52,013
Durable goods industries, total.....	58,756	59,176	58,652	59,160	55,133	55,037	57,040	52,235	50,754
Durable goods with unfilled orders.....	46,173	47,182	46,361	46,032	43,210	43,750	44,035	41,703	41,445
Primary metals, total.....	8,102	9,079	7,904	8,647	7,974	7,987	7,252	7,529	7,019
Blast furnaces, steel mills.....	3,951	5,089	3,906	4,336	4,068	4,054	3,808	3,650	3,485
Nonferrous and other primary metal products.....	3,211	3,062	3,102	3,438	3,031	3,040	2,629	3,080	2,790
Machinery, except electrical, total.....	10,436	10,143	9,791	9,848	9,850	9,944	9,509	9,211	9,232
Electrical machinery, total.....	6,937	7,163	6,941	6,350	6,758	6,950	7,127	6,433	6,467
Communication equipment.....	1,854	2,183	2,070	1,646	1,741	1,916	2,131	1,817	1,881
Transportation equipment, total.....	14,926	14,179	15,128	14,564	12,614	12,630	15,487	12,102	11,369
Aircraft, missiles, and parts.....	3,839	3,421	4,252	2,847	2,403	2,601	3,831	2,793	3,477
NEW ORDERS--WITHOUT SEASONAL ADJUSTMENT									
All manufacturing industries:									
Total.....	118,226	111,066	113,054	114,873	107,879	98,810	99,575	100,039	102,473
Total, excluding transportation.....	101,972	97,064	98,135	100,378	95,258	86,529	86,285	87,597	89,827
Total for industries with unfilled orders.....	61,787	57,376	58,758	59,374	55,331	51,417	52,674	51,210	53,440
Durable goods industries, total.....	63,752	58,899	59,824	60,900	55,651	51,048	52,139	51,386	52,814
Durable goods with unfilled orders.....	49,836	46,025	46,917	47,375	43,870	40,813	41,965	40,661	42,374
Primary metals, total.....	8,568	8,706	8,669	9,211	8,792	7,641	6,948	7,335	7,137
Blast furnaces, steel mills.....	4,217	4,498	4,433	4,797	4,630	3,809	3,738	3,533	3,510
Nonferrous and other primary metal products.....	3,343	3,241	3,270	3,494	3,311	3,004	2,496	3,018	2,820
Machinery, except electrical, total.....	11,301	10,129	10,219	10,847	10,110	9,189	9,328	8,976	9,124
Electrical machinery, total.....	7,418	6,931	6,852	6,557	6,791	6,314	6,786	6,227	6,731
Communication equipment.....	1,975	2,011	2,002	1,706					
Transportation equipment, total.....	16,254	14,002	14,919	14,495	12,621	12,281	13,290	12,442	12,646
Aircraft, missiles, and parts.....	3,812	2,777	3,642	2,618	2,321	2,463	3,980	2,529	3,754

^PPreliminary. ^RRevised.

APPENDIX A--Continued

Table A-2.--VALUE OF MANUFACTURERS' SHIPMENTS AND NEW ORDERS FOR MARKET CATEGORIES AND SUPPLEMENTARY SERIES

Industry group	June 1977 ^P	May 1977 ^P	April 1977 ^P	March 1977 ^P	February 1977 ^P	January 1977 ^P	December 1976 ^P	November 1976 ^P	October 1976 ^P
SHIPMENTS--SEASONALLY ADJUSTED									
All manufacturing industries, total.....	110,985	109,458	109,640	111,241	106,133	103,569	104,475	99,919	97,043
Durable goods industries, total.....	57,686	56,717	56,764	58,849	54,703	53,341	55,295	51,238	49,029
Industry groups arranged by market categories:									
Equipment and defense products, except automotive....	14,481	14,935	14,735	14,736	14,387	14,297	14,663	13,815	13,625
Supplementary series:									
Capital goods industries.....	16,500	16,936	16,730	16,815	16,391	16,217	16,446	15,450	15,371
Nondefense.....	14,046	14,356	14,234	14,204	13,776	13,570	13,931	13,206	13,143
Defense.....	2,454	2,578	2,496	2,611	2,615	2,647	2,515	2,244	2,228
SHIPMENTS--WITHOUT SEASONAL ADJUSTMENT									
All manufacturing industries, total.....	116,962	110,762	111,242	114,201	106,743	96,387	98,023	100,128	101,180
Durable goods industries, total.....	62,478	58,405	58,171	60,550	54,715	48,858	50,798	51,345	51,666
Industry groups arranged by market categories:									
Equipment and defense products, except automotive....	15,867	15,094	14,956	14,736	14,387	14,297	14,663	13,815	13,625
Supplementary series:									
Capital goods industries.....	17,952	17,044	16,806	17,687	16,632	14,729	16,624	15,339	15,470
Nondefense.....	15,349	14,440	14,320	15,036	14,058	12,382	14,067	13,135	13,149
Defense.....	2,603	2,604	2,486	2,651	2,574	2,347	2,557	2,204	2,321
NEW ORDERS--SEASONALLY ADJUSTED									
All manufacturing industries, total.....	112,140	111,693	111,547	111,788	106,575	105,288	106,608	100,784	99,006
Durable goods industries, total.....	58,756	59,176	58,652	59,160	55,133	55,037	57,040	52,235	50,754
Industry groups arranged by market categories:									
Equipment and defense products, except automotive....	15,854	15,948	16,169	14,478	14,323	13,994	15,929	13,897	15,082
Supplementary series:									
Capital goods industries.....	17,842	18,293	18,276	16,775	16,136	16,570	17,885	15,875	16,964
Nondefense.....	15,730	15,000	14,679	14,561	14,249	14,621	13,835	12,734	14,124
Defense.....	2,112	3,293	3,597	2,214	1,887	1,949	4,050	3,141	2,840
NEW ORDERS--WITHOUT SEASONAL ADJUSTMENT									
All manufacturing industries, total.....	118,226	111,066	113,054	114,873	107,879	98,810	99,575	100,039	102,473
Durable goods industries, total.....	63,752	58,899	59,824	60,900	55,651	51,048	52,139	51,386	52,814
Industry groups arranged by market categories:									
Equipment and defense products, except automotive....	17,485	15,068	15,988	15,272	14,068	13,134	15,833	12,981	15,123
Supplementary series:									
Capital goods industries.....	19,449	17,066	17,970	17,392	16,284	15,572	17,613	15,249	17,181
Nondefense.....	16,856	14,685	14,912	15,266	14,502	13,515	13,572	12,578	14,081
Defense.....	2,593	2,381	3,058	2,126	1,782	2,057	4,038	2,671	3,100

^PPreliminary. ^RRevised.

Table A-3.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFULFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	June 1977 ^P	May 1977 ^P	April 1977 ^P	March 1977 ^P	February 1977 ^P	January 1977 ^P	December 1976 ^P	November 1976 ^P	October 1976 ^P
INVENTORIES--SHIPMENTS RATIO									
All manufacturing industries, total.....	1.56	1.58	1.56	1.52	1.59	1.62	1.60	1.67	1.72
Durable goods industries, total.....	1.91	1.92	1.91	1.83	1.96	2.00	1.91	2.07	2.15
Machinery, except electrical.....	2.54	2.44	2.44	2.42	2.46	2.49	2.48	2.54	2.55
Electrical machinery.....	2.27	2.30	2.23	2.21	2.19	2.15	2.11	2.23	2.31
UNFULFILLED ORDERS--SHIPMENT RATIO (MONTHS' BACKLOG)									
All manufacturing industries, total.....	3.23	3.23	3.20	3.11	3.29	3.34	3.28	3.39	3.45
Durable goods industries, total.....	3.88	3.89	3.86	3.71	3.96	4.02	3.93	4.07	4.14
Machinery, except electrical.....	5.04	4.82	4.80	4.81	4.98	5.03	5.03	5.13	5.05
Electrical machinery.....	3.64	3.72	3.56	3.53	3.63	3.60	3.47	3.64	3.76

^PPreliminary. ^RRevised.

The following seasonal factors for manufacturers' shipments supersede those issued in December 1976 in the M3-1.6, appendix D, page 123.

Appendix D.--SEASONAL FACTORS FOR SHIPMENTS SERIES COMPONENTS: JANUARY TO DECEMBER 1976

(Percent)

Item	January	February	March	April	May	June	July	August	September	October	November	December
Office and store machines.....	86.2	97.4	106.9	85.6	87.3	110.4	94.5	91.7	111.2	96.6	110.7	121.5
Communication equipment:												
Defense.....	90.1	95.4	100.1	102.5	108.6	104.9	91.5	99.7	99.1	102.5	100.1	105.2
Nondefense.....	97.5	100.7	101.3	106.0	99.3	105.4	92.7	93.1	99.7	102.0	98.4	103.6
Complete aircraft:												
Defense.....	81.4	97.1	101.8	99.9	99.5	110.6	100.2	98.4	112.9	101.9	96.1	100.2
Nondefense.....	83.7	106.7	110.1	101.8	109.8	111.1	89.2	81.9	86.1	93.4	111.5	114.6
Blast furnaces, steel mills.....	99.7	103.3	105.6	106.2	103.3	105.9	91.4	97.2	99.5	98.9	95.5	93.7